

M̄ŌV™
POOL PRODUCTS

Inverter

The newest technology
for Pool heat pumps.



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POOL PRODUCTS

moovpool.com

50%

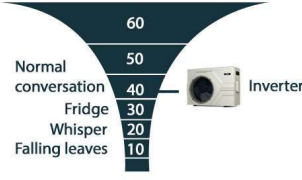
Higher energy saving

Lowest operation cost
and highest efficiency

48dB(A)

at 1m

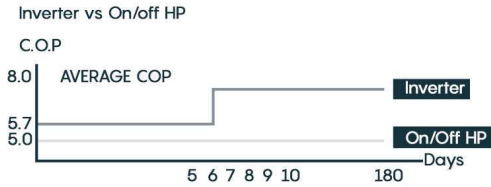
Unparalleled sound level



Why Inverter Technology?

Powered by Inverter Technology, the Inverter can adjust heating capacity from 20% to 100% intelligently according to different heating demands.

When seasons starts and heating demand is high, the Inverter runs at 100% compressor & fan speed for fast heating. When maintaining the pool temperature, the Inverter runs at low speed for energy saving with higher COP and lower sound pressure.



50% Higher energy saving

Average COP 8 at 50% capacity, Max. COP of 10

The AVERAGE COP is 8 at Air 80°F / Water 80°F / Humidity 80%, which means 1kW of electricity consumption can provide up to 8kW heat in return. Traditional On/Off heat pumps usually provide 5kW heat as their COP is just around 5.

Average 7 times quieter

Average sound pressure 48 dB(A) at 1m

Thanks to the quiet DC Full-Inverter Compressor, the Moov Inverter will offer you the most quiet operating sound range of its category.

Soft start



When the inverter turns on, the current will start from 0 A and go up gradually to rated current in under 2 minutes. This won't affect the house electrical system compared to traditional heat pumps which start at a higher current and therefore have a higher energy consumption.

Other perks

Twin-rotary DC inverter compressor

Based on "Twin mechanism" innovative solution, two rotors operate together to balance the torque for anti-shaking. It leads to higher efficiency & quieter operation.

Spiral titanium heat exchanger

Enlarge 30% heat exchanging surface

HP-BOOSTER technology

Enable COP 20% higher than On/Off HP in the market



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The heat pump's efficiency varies with climatic conditions, setup and other factors such as the average pool temperature desired. Please consult a pool expert first to confirm the right product for your needs.

	Moov Inverter	MI500	MI650	MI900	MI1100	MI1400
Maximum Pool Volume (Gallons)		< 14 000	< 18 000	< 28 000	< 32 000	< 42 000
Maximum Pool Volume (Litres)		< 52 000	< 68 000	< 105 000	< 120 000	< 155 000
Operating air temperature (°F)				32 - 109		
Performance Condition: Air 80°F / Water 80°F / Humidity 80%						
Heating capacity (Btu)		50,000	65,000	90,000	110,000	140,000
Heating capacity (Btu) in silence mode		40,000	52,000	72,000	88,000	112,000
C.O.P		10.6-5.98	11.2-5.61	13.6-6.0	13.5-5.8	13.1-5.8
Performance Condition: Air 80°F / Water 80°F / Humidity 63%						
Heating capacity (Btu)		47,500	61,000	85,000	104,000	132,000
Heating capacity (Btu) in silence mode		37,200	48,800	68,000	83,500	105,500
C.O.P		9.7-5.5	9.9-5.35	12.3-5.7	12.2-5.6	11.0-5.7
Performance Condition: Air 50°F / Water 80°F / Humidity 63%						
Heating capacity (Btu)		28,900	37,000	54,000	67,000	85,000
Heating capacity (Btu) in silence mode		20,295	26,970	43,000	54,000	68,000
C.O.P		5.1-4.15	5.2-4.3	5.5-4.3	5.2-4.2	5.2-4.1
Rated input power (kW) at air 80°F		0.46-2.53	0.53-3.39	0.54-4.39	0.61-5.9	0.85-6.85
Rated input current (A) at air 80°F		2.00-11.0	2.30-14.8	2.34-19.1	2.65-25.6	3.69-29.8
Fuse (A)		20	30	30	40	50
Power supply				208-230V / 1pH / 60Hz		
Advised water flux (L/min)		83-116	108-142	125-158	133-167	133-254
Sound pressure 3m dB(A)		34.9-46.0	38.2-47.3	37.5-49.0	35.5-49.5	39.6-51.2
Heat exchanger				Titanium in PVC		
Casing			ABS casing		ABS + Metal	
Air discharge			Horizontal		Vertical	
Water pipe in-out Spec (inch)			1 1/2"		2"	
Net Dimension LxWxH (Inch)		37.8x13.4x25.9	37.8x16.5x25.9	43.0x16.5x37.7	37.2x27.3x38.5	32.0x37.7x42.0
Net Weight (lbs.)		114	134	229	251	317
Warranty Parts & Labor				3 years		
Warranty Titanium Heat Exchanger and Compressor (Part)				5 years		